



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-6

Issued: 17 Jan 2022 / 0900L (1400Z)

Valid: 17 Jan 2022 / 1916 – 2136L (18/0016 – 0236Z)



Forecast Discussion: It's a brisk start to the day along the Space Coast with temperatures near 50°F rising to just above 60°F today as gusty northwesterly winds continue to usher in cold air even in clear skies. Winds will begin slowly tapering off after sunset at Spaceport, letting the liftoff wind threat to diminish through the launch window.

On Tuesday, high pressure will settle overhead making for another chilly morning with temperatures near 45°F, while dropping winds to the light and variable range making for excellent launch weather conditions.

Launch Day	Probability of Violating Weather Constraints					
	20%	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low-Mod
	Temp/Humidity: 53°F / 62%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Mod-high
24-Hour Delay	Liftoff Winds (200'): 280° 17-22 mph	Cirrus	Few	28,000	30,000	Solar Activity: Low
	Probability of Violating Weather Constraints					
	<10%	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
	Temp/Humidity: 52°F / 77%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
	Liftoff Winds (200'): 020° 5 - 10 mph	Stratocumulus	Few	2,500	4,000	Solar Activity: Low
		Cirrus	Few	30,000	32,000	
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.						
Next Forecast Will Be Issued		As Required				